Mexico

Epidemiological Fact Sheet

on HIV/AIDS
and sexually
transmitted
infections

2000 Update

Joint United Nations Programme on HIV/AIDS
UNAIDS
UNICEF • UNDP • UNFPA • UNDCP
UNESCO • WHO • WORLD BANK

Pan American Health
Organization

World Health
Organization

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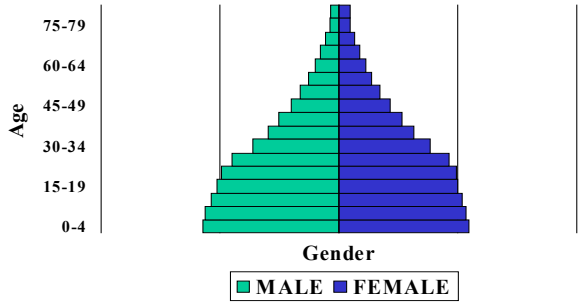
Country Information

Population pyramid, 1999



Indicators	Year	Estimate	Source
Total Population (thousands)	*1999*	97,365	UNPOP
Population Aged 15-49 (thousands)	*1999*	52,037	UNPOP
Annual Population Growth	*1990-1998*	1.8	UNPOP
% of Population Urbanized	*1998*	72	UNPOP
Average Annual Growth Rate of Urban Population	*1990-1998*	1.8	UNPOP
GNP Per Capita (US$)	*1997*	3,700	World Bank
GNP Per Capita Average Annual Growth Rate	*1996-1997*	6.3	World Bank
Human Development Index Rank (HDI)	*1999*	50	UNDP
% Population Economic Active		40.7	ILO
Unemployment Rate	*1997*	3.5	ILO
Total Adult Literacy Rate	*1995*	90	UNESCO
Adult Male Literacy Rate	*1995*	92	UNESCO
Adult Female Literacy Rate	*1995*	87	UNESCO
Male Secondary School Enrollment Ratio	*1996*	62.4	UNESCO
Female Secondary School Enrollment Ratio	*1996*	63.1	UNESCO
Crude Birth Rate (births per 1,000 pop.)	*1999*	24	UNPOP
Crude Death Rate (deaths per 1,000 pop.)	*1999*	5	UNPOP
Maternal Mortality Rate (per 100,000 live births)	*1990*	110	WHO
Life Expectancy at Birth	*1998*	72	UNPOP
Total Fertility Rate	*1998*	2.7	UNPOP
Infant Mortality Rate (per 1,000 live births)	*1999*	30	UNICEF/UNPOP

UNAIDS/WHO Working Group on Global HIV/AIDS and STI Surveillance

Global Surveillance of HIV/AIDS and sexually transmitted infections (STIs) is a joint effort of WHO and UNAIDS. The UNAIDS/WHO Working Group on Global HIV/AIDS and STI Surveillance, initiated in November 1996, guides respective activities. The primary objective of the working group is to strengthen national, regional and global structures and networks for improved monitoring and surveillance of HIV/AIDS and STIs. For this purpose, the working group collaborates closely with national AIDS programmes and a number of national and international experts and institutions. The goal of this collaboration is to compile the best information available and to improve the quality of data needed for informed decision-making and planning at national, regional and global levels. The Epidemiological Fact Sheets are one of the products of this close and fruitful collaboration across the globe.

The working group and its partners have established a framework standardizing the collection of data deemed important for a thorough understanding of the current status and trends of the epidemic, as well as patterns of risk and vulnerability in the population. Within this framework, the Fact Sheets collate the most recent country-specific data on HIV/AIDS prevalence and incidence, together with information on behaviours (e.g casual sex and condom use) which can spur or stem the transmission of HIV.

Not unexpectedly, information on all of the agreed-upon indicators was not available for many countries in 1999. However, these updated Fact Sheets do contain a wealth of information which allows identification of strengths in currently existing programmes and comparisons between countries and regions. The Fact Sheets may also be instrumental in identifying potential partners when planning and implementing improved surveillance systems.

The fact sheets can be only as good as information made available to the UNAIDS/WHO Working Group on Global HIV/AIDS and STI Surveillance. Therefore, the working group would like to encourage all programme managers as well as national and international experts to communicate additional information to the working group whenever such information becomes available. The working group also welcomes any suggestions for additional indicators or information proven to be useful in national or international decision-making and planning.

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Estimated number of people living with HIV/AIDS

In 1999 and during the first quarter of 2000, UNAIDS and WHO worked closely with national governments and research institutions to recalculate current estimates on people living with HIV/AIDS. These calculations are based on the previously published estimates for 1997 and recent trends in HIV/AIDS surveillance in various populations. A methodology developed in collaboration with an international group of experts was used to calculate the new estimates on prevalence and incidence of HIV and AIDS deaths, as well as the number of children infected through mother-to-child transmission of HIV. Different approaches were used to estimate HIV prevalence in countries with low-level, concentrated or generalized epidemics. The current estimates do not claim to be an exact count of infections. Rather, they use a methodology that has thus far proved accurate in producing estimates that give a good indication of the magnitude of the epidemic in individual countries. However, these estimates are constantly being revised as countries improve their surveillance systems and collect more information.

Adults in this report are defined as women and men aged 15 to 49. This age range covers people in their most sexually active years. While the risk of HIV infection obviously continues beyond the age of 50, the vast majority of those who engage in substantial risk behaviours are likely to be infected by this age. The 15 to 49 age range was used as the denominator in calculating adult HIV prevalence.

❑ Estimated number of adults and children living with HIV/AIDS, end of 1999

These estimates include all people with HIV infection, whether or not they have developed symptoms of AIDS, alive at the end of 1999:

Adults and children	**150000**		
Adults (15-49)	**150000**	**Adult rate (%)**	**0.29**
Women (15-49)	**22000**		
Children (0-15)	**2400**		

❑ Estimated number of deaths due to AIDS

Estimated number of adults and children who died of AIDS during 1999:

Deaths in 1999	**4700**

❑ Estimated number of orphans

Estimated number of children who have lost their mother or both parents to AIDS (while they were under the age of 15) since the beginning of the epidemic:

Cumulative orphans	**14000**

Estimated number of children who have lost their mother or both parents to AIDS and who were alive and under age 15 at the end of 1999:

Current living orphans	**10135**

Assessment of epidemiological situation – Mexico

There is some information available on HIV prevalence among antenatal women in Mexico since the late 1980s. HIV testing of antenatal women in Mexico City in 1987 resulted in no evidence of HIV infection. HIV test results from 10 states in 1990 also showed no evidence of HIV infection among antenatal women. In 1991, HIV testing in 12 states resulted in a prevalence of 0.1 percent and in 1994, 0.6 percent of antenatal women tested were HIV positive.

HIV information among sex workers is available since 1986. Among the major urban areas, HIV information is available from Mexico City, Guadalajara and in 1987, Monterrey. Between 1986 and 1996, HIV prevalence among sex workers tested has remained below 0.5 percent. Outside the major urban areas, HIV information is available from Merida, Acapulco, Tijuana, and the states of Chiapas, Jalisco and Michoacan from the late 1980s and from the 18 states through 1997. HIV prevalence among sex workers tested in the 18 states reached 1 percent in 1996.

In 1995, 6 percent of IVDUs tested in Chihuahua were HIV positive. In 1997, 1 percent of IVDUs tested in Tijuana were HIV positive.

There is no information available on HIV prevalence among STD clinic patients.

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HIV sentinel surveillance

This section contains information about HIV prevalence in different populations. The data reported in the tables below are mainly based on the HIV data base maintained by the United States Bureau of the Census where data from different sources, including national reports, scientific publications and international conferences is compiled. To provide for a simple overview of the current situation and trends over time, summary data are given by population group, geographical area (Major Urban Areas versus Outside Major Urban Areas), and year of survey. Studies conducted in the same year are aggregated and the median prevalence rates (in percentages) are given for each of the categories. The maximum and minimum prevalence rates observed, as well as the total number of surveys/sentinel sites, are provided with the median, to give an overview of the diversity of HIV-prevalence results in a given population within the country. Data by sentinel site or specific study on which the medians were calculated are printed at the end of this fact sheet.

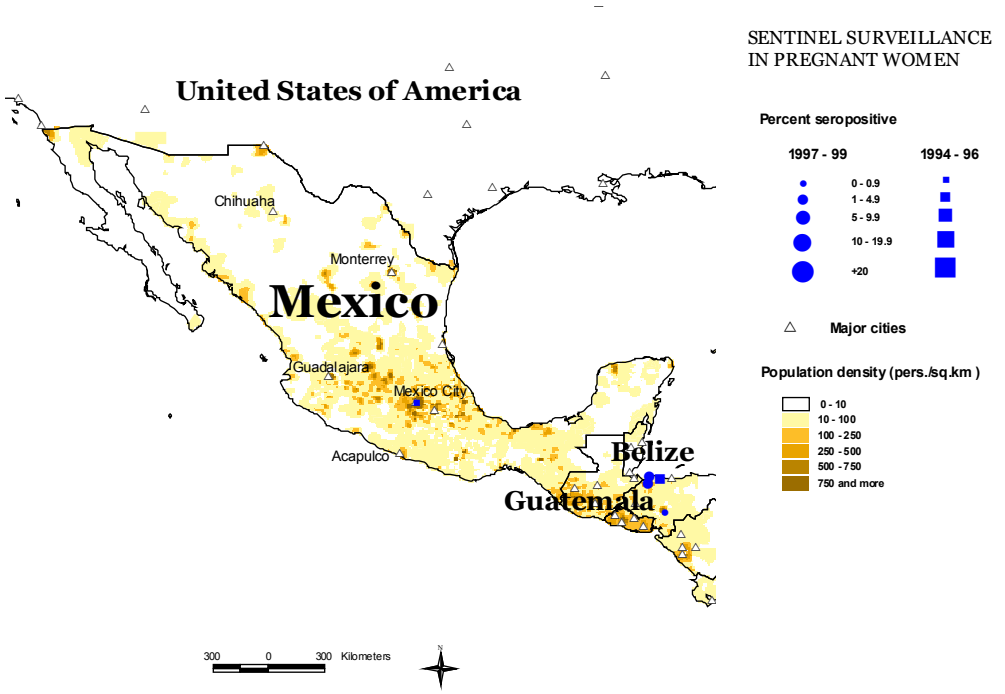
The differentiation between the two geographical areas Major Urban Areas and Outside Major Urban Areas is not based on strict criteria, such as the number of inhabitants. For most countries, Major Urban Areas were considered to be the capital city and – where applicable – other metropolitan areas with similar socio-economic patterns. The term Outside Major Urban Areas considers that most sentinel sites are not located in strictly rural areas, even if they are located in somewhat rural districts.

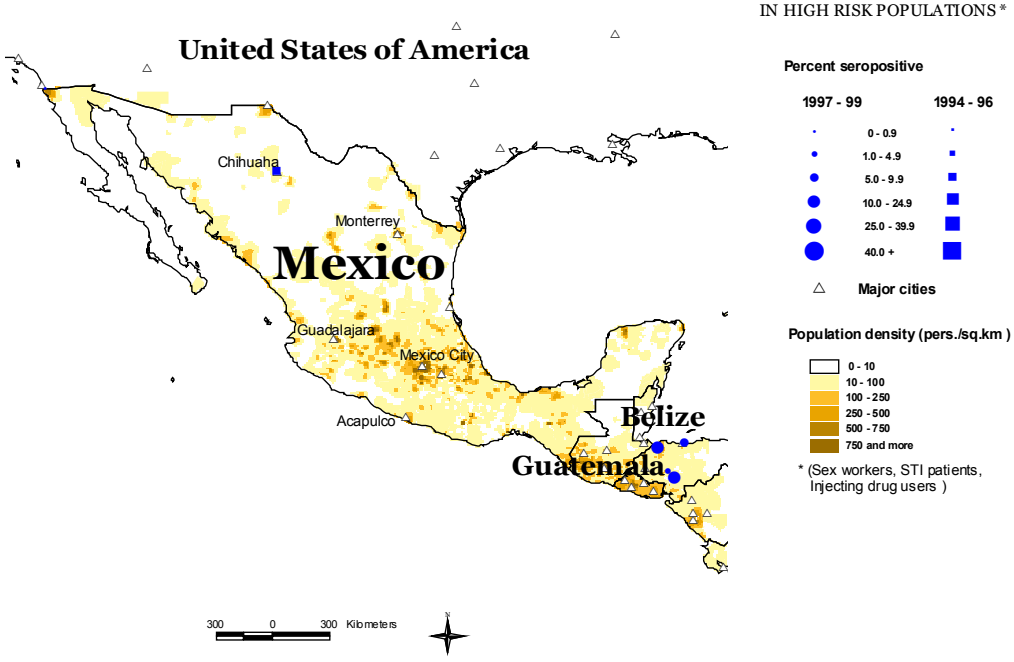
❑ **HIV prevalence in selected populations in percent** (for blood donors: 1/100 000)

Group	Area		1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Pregnant women	Major Urban Areas	N-sites				1			1	1			1					
		Minimum				0			0	0.1			0.6					
		Median				0			0	0.1			0.6					
		Maximum				0			0	0.1			0.6					
Pregnant women	Outside Major Urban Areas	N-sites																
		Minimum																
		Median																
		Maximum																
Group	Area		1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Sex workers	Major Urban Areas	N-sites			1	3		1	1		1	3			1			
		Minimum			0.4	0		0.2	1.2		0.2	0			0.1			
		Median			0.4	0		0.2	1.2		0.2	0.3			0.1			
		Maximum			.04	1		0.2	1.2		0.2	1.1			0.1			
Sex workers	Outside Major Urban Areas	N-sites			1	3	4	3	1	1	1	1	1	1	1	1		
		Minimum			0.9	0	0	0	0.4	0.6	0.2	0.3	0.3	0.3	1	1.1		
		Median			0.9	0	0.15	0.2	0.4	0.6	0.2	0.3	0.3	0.3	1	1.1		
		Maximum			0.9	1	0.8	1	0.4	0.6	0.2	0.3	0.3	0.3	1	1.1		
Group	Area		1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Injecting drug users	Major Urban Areas	N-sites																
		Minimum																
		Median																
		Maximum																
Injecting drug users	Outside Major Urban Areas	N-sites					1							1		1		
		Minimum					0							5.9		1.1		
		Median					0							5.9		1.1		
		Maximum					0							5.9		1.1		
Group	Area		1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
STI patients	Major Urban Areas	N-sites																
		Minimum																
		Median																
		Maximum																
STI patients	Outside Major Urban Areas	N-sites																
		Minimum																
		Median																
		Maximum																
Group	Area		1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Blood Donors	National	N-sites																
		Minimum																
		Median																
		Maximum																
Blood Donors	Major Urban Areas	N-sites																
		Minimum																
		Median																
		Maximum																
Group	Area		1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Men having sex with men	Major Urban Areas	N-sites																
		Minimum																
		Median																
		Maximum																

Maps of HIV sentinel sites

Mapping the geographical distribution of HIV sentinel sites for different population groups may assist interpreting both the national coverage of the HIV surveillance system and explaining differences in levels and trends of prevalence. The UNAIDS/WHO Working Group on Global HIV/AIDS and STI Surveillance, in collaboration with the UNICEF/WHO HealthMap Programme, has produced maps showing the location and HIV prevalence of HIV sentinel sites in relation to population density, major urban areas and communication routes. Maps illustrate separately the most recent results from HIV sentinel surveillance in pregnant women and in sub-populations at higher risk of HIV infection.





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Reported AIDS cases

AIDS cases by year of reporting

1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	Total	Unkn
0	0	0	0	60	198	349	673	1485	2069	2661	3517	3625	3988	3950	4129	4106	3810	3550	3498	1094	42762	0

Date of last report: 31.12.99

Following WHO and UNAIDS recommendations, AIDS case reporting is carried out in most countries. Data from individual AIDS cases is aggregated at the national level and sent to WHO. However, case reports come from surveillance systems of varying quality. Reporting rates vary substantially from country to country and low reporting rates are common in developing countries due to weaknesses in the health care and epidemiological systems. In addition, countries use different AIDS case definitions. A main disadvantage of AIDS case reporting is that it only provides information on transmission patterns and levels of infection approximately 5-10 years in the past, limiting its usefulness for monitoring recent HIV infections.

Despite these caveats, AIDS case reporting remains an important advocacy tool and is useful in estimating the burden of HIV-related morbidity as well as for short-term planning of health care services. AIDS case reports also provide information on the demographic and geographic characteristics of the affected population and on the relative importance of the various exposure risks. In some situations, AIDS reports can be used to estimate earlier HIV infection patterns using back-calculation. AIDS case reports and AIDS deaths have been dramatically reduced in industrialized countries with the introduction of HAART (Highly Active Anti-Retroviral Therapy).

AIDS cases by mode of transmission

Hetero: Heterosexual contacts.
Homo/Bi: Homosexual contacts between men.
IDU: Injecting drug use. This transmission category also includes cases in which other high-risk behaviours were reported, in addition to injection of drugs.
Blood: Blood and blood products.
Perinatal: Vertical transmission during pregnancy, birth or breastfeeding.
NS: Not specified/unknown.

Sex	Trans. Group	<96	1996	1997	1998	1999	Unkn	Total	%
All	Total	30810	3810	3550	3498	1094	0	42762	100
	Hetero	6097	984	1019	698	471	0	9269	32
	Homo/Bi	12114	1328	1399	739	401	0	15981	54
	IDU*	208	24	14	13	10	0	269	1
	Blood**	2885	104	77	42	1	0	3109	11
	Perinatal	402	66	67	28	15	0	578	2
	Other Known	201	3				0	204	1
	Unknown	8903	1301	974	1978	196	0	13352	***
Male	Total	26524	3236	3028	2982	919	0	36689	100
	Hetero	4594	744	775	511	353	0	6977	28
	Homo/Bi	12114	1328	1399	739	400	0	15980	63
	IDU*	186	20	10	11	8	0	235	1
	Blood**	1543	60	39	23	1	0	1666	7
	Perinatal	217	25	30	19	6	0	297	1
	Other Known	201	3				0	204	1
	Unknown	7669	1056	775	1679	151	0	11330	***
Female	Total	4286	574	522	516	174	0	6072	100
	Hetero	1503	240	244	187	118	0	2292	57
	IDU*	22	4	4	2	2	0	34	1
	Blood**	1342	44	38	19		0	1443	36
	Perinatal	185	41	37	9	9	0	281	7
	Other Known	0					0		
	Unknown	1234	245	199	299	45	0	2022	***
NS	Total								
	Hetero								
	IDU*								
	Blood**								
	Perinatal								
	Other Known								
	Unknown								

* Includes: Combined Category Homosexual and IDU

** Includes: Blood Transfusion, Hemophylic, Blood Donator and Occupational Exposure

*** The cases with mode of transmission unknown was excluded for percent calculation.

Aids cases by age and sex

Sex	Age	<96	1996	1997	1998	1999	Unkn.	Total	%
All	All	30238	3763	3516	3474	1084	0	42075	100
	0-4	503	60	58	37	14	0	672	1.6
	5-9	169	26	15	6	3	0	219	0.5
	10-14	144	23	10	8	2	0	187	0.4
	15-19	498	56	64	53	26	0	697	1.7
	20-24	3102	330	384	334	117	0	4267	10.1
	25-29	6138	738	688	592	200	0	8356	19.9
	30-34	6365	817	677	720	209	0	8788	20.9
	35-39	4751	614	576	586	201	0	6728	16.0
	40-44	3159	413	405	412	112	0	4501	10.7
	45-49	2142	277	238	296	76	0	3029	7.2
	50-54	1405	185	164	162	51	0	1967	4.7
	55-59	897	107	113	131	36	0	1284	3.1
	60+	510	66	61	67	13	0	717	1.7
	NS	455	51	63	70	24	0	663	1.6
Male	All	26029	3197	2999	2961	911	0	36097	100
	0-4	294	25	29	19	6	0	373	1.0
	5-9	106	11	6	4	2	0	129	0.4
	10-14	109	14	6	6	2	0	137	0.4
	15-19	379	46	51	36	17	0	529	1.5
	20-24	2610	270	308	259	94	0	3541	9.8
	25-29	5439	637	603	515	164	0	7358	20.4
	30-34	5590	722	591	610	179	0	7692	21.3
	35-39	4137	535	500	517	174	0	5863	16.2
	40-44	2731	350	354	358	98	0	3891	10.8
	45-49	1841	243	207	259	66	0	2616	7.2
	50-54	1195	155	142	144	47	0	1683	4.7
	55-59	782	88	96	110	29	0	1105	3.1
	60+	439	56	47	59	12	0	613	1.7
	NS	377	45	59	65	21	0	567	1.6
Female	All	4209	566	517	513	173	0	5978	100
	0-4	209	35	29	18	8	0	299	5.0
	5-9	63	15	9	2	1	0	90	1.5
	10-14	35	9	4	2	0	0	50	0.8
	15-19	119	10	13	17	9	0	168	2.8
	20-24	492	60	76	75	23	0	726	12.1
	25-29	699	101	85	77	36	0	998	16.7
	30-34	775	95	86	110	30	0	1096	18.3
	35-39	614	79	76	69	27	0	865	14.5
	40-44	428	63	51	54	14	0	610	10.2
	45-49	301	34	31	37	10	0	413	6.9
	50-54	210	30	22	18	4	0	284	4.8
	55-59	115	19	17	21	7	0	179	3.0
	60+	71	10	14	8	1	0	104	1.7
	NS	78	6	4	5	3	0	96	1.6
NS	All	0	0	0	0	0		0	0
	0-4	0	0	0	0	0		0	0
	5-9	0	0	0	0	0		0	0
	10-14	0	0	0	0	0		0	0
	15-19	0	0	0	0	0		0	0
	20-24	0	0	0	0	0		0	0
	25-29	0	0	0	0	0		0	0
	30-34	0	0	0	0	0		0	0
	35-39	0	0	0	0	0		0	0
	40-44	0	0	0	0	0		0	0
	45-49	0	0	0	0	0		0	0
	50-54	0	0	0	0	0		0	0
	55-59	0	0	0	0	0		0	0
	60+	0	0	0	0	0		0	0
	NS	0	0	0	0	0		0	0

Curable Sexually Transmitted Infections (STIs)

The predominant mode of transmission of both HIV and other STIs is sexual intercourse. Measures for preventing sexual transmission of HIV and STI are the same, as are the target audiences for interventions. In addition, strong evidence supports several biological mechanisms through which STI facilitate HIV transmission by increasing both HIV infectiousness and HIV susceptibility. Significant also is the observation of a sharp decline in the concentration of HIV in the genital secretions when the infection is treated. Monitoring trends in STI can provide valuable information on the sexual transmission of HIV as well as the impact of behavioural interventions, such as promotion of condom use.

Clinical services offering STI care are an important access point for people at high risk for both AIDS and STI, not only for diagnosis and treatment but also for information and education. Therefore, control and prevention of STI have been recognized as a major strategy in the prevention of HIV infection and ultimately AIDS. One of the cornerstones of STI control is adequate management of patients with symptomatic STIs. This includes diagnosis, treatment and individual health education and counselling on disease prevention and partner notification. Consequently, monitoring different components of STI control can also provide information on HIV prevention within a country.

❑ **Estimated incidence and prevalence of curable STIs**

	Incidence				Prevalence			
STI's	Year	Male	Female	All	Year	Male	Female	All
Chlamydia trach.								
Gonorrhoea								
Syphilis								
Trichomonas								

Comments:
Source:

❑ **STI Incidence, men**

Prevention Indicator 9: Proportion of men aged 15-49 years who reported episodes of urethritis in the last 12 months.

Year	Area	Age	Rate	N=

Comments:
Sources:

❑ **STI Prevalence, women**

Prevention Indicator 8: Proportion of pregnant women aged 15-24 years attending antenatal clinics whose blood has been screened with positive serology for syphilis.

Year	Area	Age	Rate	N=

Comments:
Sources:

❑ **STI Case management (counselled)**

Prevention Indicator 7: Proportion of people presenting with STI or for STI care in health facilities who received basic advice on condoms and on partner notification.

Year	Area	Age	Rate	N=

Comments:
Sources:

❑ **STI Case management (treatments)**

Prevention Indicator 6: Proportion of people presenting with STI in health facilities assessed and treated in an appropriate way (according to national standards).

Year	Area	Age	Rate	N=

Comments:
Sources:

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Health service indicators

HIV prevention strategies depend on the twin efforts of care and support for those living with HIV or AIDS, and targeted prevention for all people at risk or vulnerable to the infection. These efforts may range from reaching out to vulnerable communities through large-scale educational campaigns or interpersonal communication; provision of treatment for STIs; distribution of condoms and needles; creating and enabling environment to reduce risky behaviour; providing access to voluntary testing and counselling; home or institutional care for persons with symptomatic HIV infection; and preventing perinatal transmission and transmission through infected needles or blood in health care settings. It is difficult to capture such a large range of activities with one or just a few indicators. However, a set of well-established health care indicators – such as the percentage of a population with access to health care services; the percentage of women covered by antenatal care; or the percentage of immunized children – may help to identify general strengths and weaknesses of health systems. Specific indicators, such as access to testing and blood screening for HIV, help to measure the capacity of health services to respond to HIV/AIDS – related issues.

❑ Access to health care

Indicators	Year	Estimate	Source
% of population with access to health services – total:	1998	97	MOH
% of population with access to health services – urban:			
% of population with access to health services – rural:			
Contraceptive prevalence rate (%):	1990-1999	69	UNICEF/UNPOP
% of births attended by trained health personnel:	1990-1999	68	UNICEF
% of 1-yr-old children fully immunized – DPT:	1995-1998	94	UNICEF
% of 1-yr-old children fully immunized – Polio:	1995-1998	95	UNICEF
% of 1-yr-old children fully immunized – Measles:	1995-1998	89	UNICEF
Proportion of blood donations tested:	1998	100	MOH
% of ANC clinics where HIV testing is available:			
HIV/AIDS Hospital Occupancy Rate (Days):	1997	13	NAP

Male and female condoms are the only technology available that can prevent sexual transmission of HIV and other STIs. Persons exposing themselves to the risk of sexual transmission of HIV should have consistent access to high quality condoms. AIDS Programmes implement activities to increase both availability of and access to condoms. The two condom availability indicators below are intended to highlight areas of strength and weakness at the beginning and end of the distribution system so that programmatic resources can be directed appropriately to problem areas.

❑ Condom availability (central level)

Prevention Indicator 2: Availability of condoms in the country over the last 12 months (central level).

Year	Area	N	Rate
1997	All	55,000,000	1.1

Comments:
Sources: MoH, 1997

❑ Condom availability (peripheral level)

Prevention Indicator 3: Proportion of people who can acquire a condom (peripheral level).

Year	Area	N	Rate

Comments:
Sources:

Knowledge and behaviour

In most countries the HIV epidemic is driven by behaviours (e.g.: multiple sexual partners, intravenous drug use) that expose individuals to the risk of infection. Information on knowledge and on the level and intensity of risk behaviour related to HIV/AIDS is essential in identifying populations most at risk for HIV infection and in better understanding the dynamics of the epidemic. It is also critical information in assessing changes over time as a result of prevention efforts. One of the main goals of the 2nd generation HIV surveillance systems is the promotion of regular behavioural surveys in order to monitor trends in behaviours and target interventions.

❑ Knowledge of HIV- related preventive practices

Prevention Indicator 1: Proportion of people citing at least two acceptable ways of protection from HIV infection.

Year	Area	Age Group	Male	Female	All
	Urban	15-60			89.4

Comments:
Sources: MOH, 1988

❑ Reported non-regular sexual partnerships

Prevention Indicator 4: Proportion of sexually active people having at least one sex partner other than a regular partner in the last 12 months.

Year	Area	Age Group	Male	Female	All
	Urban	15-49	15.4		

Comments:
Sources: MOH, 1997

❑ Reported condom use in risk sex (gen pop)

Prevention Indicator 5: Proportion of people reporting the use of a condom during the most recent intercourse of risk.

Year	Area	Age Group	Male	Female	All
	Urban	15-49	62.8		

Comments:
Sources: MOH, 1997

Knowledge and behaviour

❑ Ever use of condom

Percentage of people who ever used a condom.

Year	Area	Age Group	Male	Female	All

Comments:
Sources:

❑ Median age at first sexual experience

Median age of people at which they first had sexual intercourse.

Year	Area	Age Group	Male	Female	All
1997			15	16	

Comments: Survey conducted by the Ministry of Health in Mexico City.
Sources:

❑ Adolescent pregnancy

Percentage of teenagers 15-19 who are mothers or pregnant with their first child.

Year	Area	Age Group	Rate	N
1997	All	15-17		13.0

Comments:
Sources: National Fertility Health

❑ Proportion of people ever having had sex with same sex

Year	Area	Age Group	Rate	N

Comments:
Sources:

❑ Reported non-regular sexual partnerships (MSM)

Year	Area	Age Group	Rate	N

Comments:
Sources:

Sources

Data presented in this Epidemiological Fact Sheet come from several different sources, including global, regional and country reports, published documents and articles, posters and presentations at international conferences, and estimates produced by UNAIDS, WHO and other United Nations Agencies. This section contains a list of the more relevant sources used for the preparation of the Fact Sheet. Where available, it also lists selected national Web sites where additional information on HIV/AIDS and STI are presented and regularly updated. However, UNAIDS and WHO do not warrant that the information in these sites is complete and correct and shall not be liable whatsoever for any damages incurred as a result of their use.

Conde-Glez, C., M. Hernandez-Avia, F. Uribe, et al., 1993, STDs Prevalence Studies among Different Populations in Mexico City, IX International Conference on AIDS, Berlin, 6/6-11, Abstract PO-C20-3070.

Cruz, C., G. Hernandez-Tepichin, A. Silva, et al., 1996, STD's and HIV Prevalence in Female Sex Workers (FSW) in Mexico City, XI International Conference on AIDS, Vancouver, 7/7-14, Poster Mo.C.1432.

Gongora-Biachi, R. A., P. Gonzalez-Martinez,, 1987, Antibodies Against the HIV Virus in a Population of Prostitutes in Merida, Yucatan, Mexico, Revista de Investigacion, Clinca, (Mex.), vol. 39, pp. 305-306.

Guerena-Burgueno, F., A. S. Benenson, J. Sepulveda-Amor, 1991, HIV-1 Prevalence in Selected Tijuana Sub-Populations, American Journal of Public Health, vol. 81, no. 5, pp. 623-625.

Gonzalez, M. G., C. L. Magis, M. L. Garcia, et al., 1991, Evolution of Cross Sectional Studies to Centinel Studies in Mexico 1986-1990, VII International Conference on AIDS, Florence, Italy, 6/16-21, Poster M.C.3267.

Garcia, M. L., J. L. Valdespino, S. Balandrano, et al., 1994, Multirresistant M. TB among Persons Living with HIV in Mexico, Tenth International Conference on AIDS, Yokohama, Japan, 8/7-12, Session 262C.

Magis-Rodriguez, C., A. Ruiz-Badillo, R. Ortiz-Mondragon, et al., 1997, Practicas de Riesgo de Infeccion por VIH/SIDA en Inyectores de Drogas de Tijuana, Mexico, V Pan-American Conference on AIDS and XI Latin American Congress on STD, Lima, Peru, 12/3-6, Abstract PCS441.

Magis-Rodriguez, C., A. Ruiz-Badillo, M. R. Ortiz, et al., 1997, Percepcion de Riesgo de Infeccion al VIH en Usuarios de Drogas Intravenosas en CD.Juarez, Chihuahua, Mexico, V Pan-American Conference on AIDS and XI Latin American Congress on STD, Lima, Peru, 12/3-6, Abstract PCV315.

Santarriaga Sandoval, M., R. E. Loo-Mendez, et al., 1998, Female Sex Workers in Mexico: Sentinel Surveillance 1990-1997, 12th World AIDS Conference, Geneva, 6/28-7/3, Abstract 23547.

Torres-Mendoza, B., P. Campos-Lopez, M. L. Jauregui Rios, et al., 1990, Natural History of HIV Infection in a Cohort of Female Prostitutes in Guadalajara, Mexico, VI International Conference on AIDS, San Francisco, 6/20-24, Abstract F.C.594.

Uribe, P., M. Hernandez, B. De Zalduondo, et al., 1991, HIV Spreading and Prevention Strategies among Female Prostitutes, VII International Conference on AIDS, Florence, Italy, 6/16-21, Poster W.C.3135.

Uribe-Salas, F., M. Hernandez-Avila, C. J. Conde-Glez, et al., 1997, Low Prevalences of HIV Infection and Sexually Transmitted Disease among Female Commercial Sex Workers in Mexico City, American Journal of Public Health, vol. 87, no. 6, pp. 1012-1015.

Valdespino-Gomez, J., J Sepulveda-Amor, J. Izazola-Licea, et al., 1988, Epidemiological Patterns and Predictions of AIDS in Mexico, Salud Publica de Mexico, vol. 30, no. 4, pp. 567-592.

Valdespino, J. L., M. L. Garcia, E. Loo, et al., 1992, HIV-1 Infection in Mexico Through National Sentinel Surveillance System. An Update, VIII International Conference on AIDS, Amsterdam, 7/19-24, Poster PoC 4063.

Websites:

National Institute of Public Health (Spanish only):
www.insp.mx/index.html

12 – Mexico

Annex: HIV Surveillance data by site

Group	Area		1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Pregnant women	Major Urban Areas	10 states							0									
		12 states								0.1								
		Mexico City				0												
		National											0.6					
Pregnant women	Outside Major Urban Areas																	

Group	Area		1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Sex workers	Major Urban Areas	Guadalajara			0.4	0		0.2										
		Mexico City				1			1.2		0.2				0.1			
		Mexico City - bar										0.3						
		Mexico City - parlor										0						
		Mexico City - street										1.1						
		Monterrey				0												
Sex workers	Outside Major Urban Areas	Acapulco				0												
		Chiapas state					0	0.2										
		Jalisco state					0.8	1										
		Merida			0.9	0												
		Michoacan state					0	0										
		Tijuana				1	0.3											
		18 states							0.4	0.6	0.2	0.3	0.3	0.3	1	1.1		

Group	Area		1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Injecting drug users	Major Urban Areas																	
Injecting drug users	Outside Major Urban Areas	Tijuana, Baja California					0									1.1		
		Chihuahua												5.9				

Group	Area	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
STI patients	National																
STI Patients	Major Urban Areas																

Group	Area	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Blood Donors	National																
Blood Donors	Major Urban Areas																

Group	Area	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Men having sex with men	National																